



FY 2013–14

GRANT #

TDA3-13-0009

Butte County Association of Governments

Department of Resources Recycling and Recovery

Tire-Derived Aggregate (TDA) Grant Program

Background

The Tire-Derived Aggregate (TDA) grant program promotes the use of recycled waste tires as a cost-effective alternative to conventional aggregate used for various landfill applications. TDA is produced from shredded tires, is lightweight, free-draining, and less expensive alternative to conventional lightweight aggregates.

The Butte County Association of Governments (BCAG) applied during Fiscal Year (FY) 2013-14 and awarded \$85,750 for stormwater management project at the new Butte Regional (Transit) Operations Center.



Grant Project Goals

The Butte County Association of Governments (BCAG) had to incorporate stormwater management when they converted an undeveloped parcel of land for the new Butte Regional Operations Transit Center. Bioretention trenches (bioswales) were selected and installed for infiltration of stormwater on the non-pervious areas on the site.

Outcome and Accomplishments

- First project in CalRecycle's Grant Program to utilize TDA for stormwater bioswales applications.
- In lieu of crushed gravel, 774 tons of TDA was used as the fill material.
- This project diverted 77,400 waste tires from California's waste stream.



Photos Used: Backfill with TDA around structures and pipes (left). Completed project (top).

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Challenges

The use of plastic storm water pipe in TDA caused some buoyancy concerns, therefore pipe anchors had to be installed to secure the pipe to the ground. Due to the density and composition of the underlying soil installing the anchors was extremely difficult, time consuming, and costly. However with the anchors in place there were no more buoyancy concerns.

Lessons Learned and Recommendations

Analyze the trench design for pipe buoyancy issues and include anchors in the design if required.

Snapshot

Grant Program: Tire-Derived Aggregate Grant Program

Grant Program Website:

<http://www.calrecycle.ca.gov/Tires/Grants/TDA/>

Grant Number: TDA3-13-0009

Grant Type: Tire Recycling, Cleanup and Enforcement Grants

Year Awarded: Fiscal Year 2013-14

Funding: Awarded \$85,750

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Preconstruction Photo: Excavated trench for the bioswales (above)

Photo Used: TDA-filled trench, wrapped in geotextile prior to final grading (top)